CLAIMS:

1. A wireless network comprising at least a base station and a plurality of assigned terminals for exchanging user data and control data, which terminals are each provided for transmitting to the assigned base station a reservation message that depends on a first persistency probability for assigning transmission capacity for at least one data packet, characterized
in that the further transmission of a reservation request received at least once by the base station depends on at least a further persistency probability.

2. A wireless network as claimed in claim 1, characterized
in that the data packet comprises a preamble and a data part and in that the transmission of a preamble is a reservation request from a terminal.

3. A wireless network as claimed in claim 2, characterized
in that a terminal, after receiving an assignment message, is provided for transmitting the data part of the data packet.

4. A wireless network as claimed in claim 1, characterized
in that a terminal is provided for transmitting a reservation request for the first time when the first persistency probability predefined by the base station is larger than a random number generated in the respective terminal, and
in that a terminal is provided for transmitting a reservation request received at least once by the base station when the further persistency probability predefined by the base station is larger than a random number generated in the respective terminal.

5. A wireless network as claimed in claim 1, characterized

in that the base station is provided for determining the first and second persistency probability in dependence on the traffic load, so that with a small traffic load the first and the second persistency probability are higher than with a higher traffic load.

6. A wireless network as claimed in claim 1, characterized
in that the base station is provided for transmitting the further persistency probability only after the transmission of a complete data packet has been rejected.

7. A wireless network as claimed in claim 4, characterized
in that the base station is provided for transmitting a second persistency probability only when previously a rejection message has been sent.

8. A wireless network as claimed in claim 4, characterized
in that the base station is provided for periodically transmitting the first, a third and a fourth persistency probability and
in that a terminal is provided for comparing the first persistency probability with a random number generated in the respective terminal if after a defined space of time the terminal again wishes to transmit a reservation message,
in that a terminal is provided for comparing the third persistency probability with a random number generated in the respective terminal if during the defined space of time the terminal again wishes to transmit a reservation message, and
in that a terminal is provided for comparing the fourth persistency probability with a random number generated in the respective terminal if, after a step-by-step increase of the transmission power to a maximum value and a repeated transmission of the reservation message, a terminal has received neither an assignment message nor a rejection message.

9. A wireless network as claimed in claim 1, characterized
in that the base station is provided for transmitting a factor only after the transmission of a complete data packet has been rejected, and

in that a terminal is provided for forming the further persistency probability from the received factor and the first persistency probability.

10. A base station in a wireless network having a plurality of assigned terminals for exchanging user data and control data and for transmitting a reservation message depending on a first persistency probability for the assignment of transmission capacity for at least one data packet to the base station,
characterized
in that the further transmission of a reservation message received at least once from the base station depends on at least one further persistency probability.

11. A terminal in a wireless network comprising at least one base station and further assigned terminals for exchanging user data and control data and for transmitting a reservation request depending on a first persistency probability for the assignment of transmission capacity for at least one data packet to the assigned base station,
characterized
in that the further transmission of a reservation message received at least once by the base station depends on at least one further persistency probability.

ABSTRACT:

The invention relates to a wireless network comprising at least a base station and a plurality of assigned terminals for exchanging user data and control data, which terminals are each provided for transmitting a reservation message depending on a first persistency probability for assigning transmission capacity for at least one data packet to the assigned base station. The further transmission of a reservation message received at least once by the base station depends on at least a further persistency probability.

Fig. 1